

NEIGHBOR AND EDGE INDEXING

ABSTRACT OF THE DISCLOSURE

Method and apparatus for neighbor and edge indexing is described. A vertex is identified and assigned a reference. One-ring neighbor vertices of the vertex are identified. The reference is assigned to each of the one-ring neighbor vertices identified. An index to one of the one-ring neighbor vertices is assigned. The index is successively incremented to provide indices for each of the one-ring neighbor vertices remaining. Edge indexing follows as described above, with the vertex and its one-ring neighbors defining end points of edges. Additionally, offset indexing is described, and may be used for a consistent order of computation.